

IN THE SPECIFICATION:

Please replace the FIRST full paragraph of specification page 9 with the following replacement paragraph:

— In the anode current collector embodiment, shown in Fig. 1A 1, an anode current collector 110 is located at the anode aspect 104 of the fuel cell 102. The anode current collector 110 has a plurality of openings 112, 114, etc. (Fig. 2). These openings also allow for fuel to flow into the fuel cell. In addition, these openings are used by the device of the present invention to effect control of fuel flow into an out of the fuel cell.

Please replace the SECOND full paragraph of specification page 9 with the following replacement paragraph:

— More particularly, referring now to Fig. 3A, (in which like components have the same reference characters as in Figs. 1 and 2), a moving shutter plate 130 is placed between the fuel source and the anode aspect of the fuel cell, for example within the vapor gap 126. The moving shutter plate 130 includes protrusions 132, 134 and 136. These protrusions are designed to correspond to and interconnect with the anode current collector openings. For example, the protrusion 132 in the moving shutter plate 130 is adjusted such that it closes the opening 142 of the anode current collector in such a manner that it acts as a plug that produces a seal against mass fuel flow between the moving shutter plate 130 and the anode current collector 110. Correspondingly, the protrusion 134 forms a seal in the area 144 and the protrusion 136 forms a seal in the area 146. A closed position is illustrated in Fig. 3B. It may be desirable or beneficial to coat the protrusions, or treat the internal edge of the opening with a pliable material to improve the seal between the opening and the protrusion. As noted above, in an alternative embodiment, the protrusions, such as the protrusion 134 can be disposed on the current collector, while the openings are located in the moving plate, which is moved towards the protrusions and compressed to form a seal against reactant travel.

Please replace the SECOND full paragraph of specification page 10 with the following replacement paragraph:

Several alternative embodiments are illustrated in Figs. 3D through 3F. In the embodiment illustrated in Fig. 3D, the moving plate 130 has protrusions 132, 134 and 136 as described above. The anode current collector ~~44~~ 110 includes openings 142, 144 and 146 in a manner similar to that described above, however, these are defined by a rectangular pattern as illustrated in the cross sectional portions 170d-176d of the anode current collector 110.

Please replace the LAST full paragraph of specification page 12 with the following replacement paragraph:

Figs. ~~4A~~ 1-3F illustrate the shutter assembly for a single fuel cell. However, multiple fuel cells may be contained in a fuel cell array, in certain implementations. In such an implementation an anode current collector, for use with a fuel cell array, is illustrated in Figs. 4A and 4B. Fig. 4A shows the front view of an anode current collector 400. The current collector 400 has an outer frame 402, which provides stability for six individual current collectors 404 through 414. The anode current collectors are thus used with individual fuel cells (not shown).